

# Composite Hose and Chemical Table

**⚠ WARNING!** The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide **ONLY**, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested. Refer to the Safety & Technical Information section of this catalog for safety, handling and use information.

**Key:** **A** = Suitable for use @ 140°F      **F** = Unsuitable – NOT RECOMMENDED  
**B** = Suitable for use @ AMBIENT temperatures      • = No data (contact Parker)  
**C** = Suitable for INTERMITTENT service only

Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material		Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material	
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems		Nitrile (Petroleum Applications)	FKM (Chemical Applications)		w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems		Nitrile (Petroleum Applications)	FKM (Chemical Applications)
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)				G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)		
1,3-Pentadiene	C	C	C	A	C	A	•	•	Amyl Alcohol	B	B	B	A	B	A	A	A
2-Ethylhexylamine	C	B	B	A	C	A	•	•	Amyl Chloride	C	C	C	B	C	B	F	A
2-Ethyl-3-Propylacrolein	C	C	C	A	C	A	•	•	Aniline	F	C	C	A	F	A	F	B
2-Hydroxyethyl Acrylate	C	C	C	B	C	B	•	•	Animal Oils	A	A	A	A	A	A	A	A
2-Methyl Pentene	C	C	C	A	C	A	•	•	Anisole	C	C	C	B	C	B	•	B
Acetaldehyde 100%	F	C	C	A	F	A	F	F	Antimony Chloride	F	B	F	F	F	F	A	A
Acetaldehyde 40%	F	B	B	A	F	A	F	F	Aqua Regia	F	C	F	F	F	F	F	A
Acetic Acid 60%	F	A	A	A	F	A	F	F	Arcenic Chloride	F	B	F	F	F	F	C	F
Acetic Acid, Glacial	F	B	B	A	F	A	F	F	Arsenic Acid	F	B	C	B	F	B	A	A
Acetic Anhydride	F	B	B	A	F	A	F	F	Aviation Fuel	C	C	C	B	C	B	A	A
Acetoacetic Ester	F	B	B	A	F	A	F	F	Barium Carbonate	A	A	A	A	A	A	A	A
Acetone	A	A	A	A	A	A	F	F	Barium Chloride Solution	F	A	F	F	F	F	A	A
Acetone Cyanohydrin	F	B	B	A	F	A	F	F	Barium Hydroxide	F	A	A	A	F	A	A	A
Acetonitrile	B	B	B	A	B	A	C	F	Barium Salts	F	A	B	B	F	B	A	A
Acetophenone	B	B	B	A	B	A	F	F	Barium Sulfate	F	A	A	A	F	A	A	A
Acetyl Chloride	F	F	F	A	F	A	F	B	Beer	F	A	A	A	F	A	A	A
Acetylacetone	B	B	B	A	B	A	C	F	Benzaldehyde	F	C	C	A	F	A	F	F
Acetylene Dichloride	B	B	B	A	B	A	A	F	Benzene	F	C	C	A	F	A	F	A
Acrolein (Acrylaidenhyde)	B	B	B	A	B	A	B	F	Benzoic Acid	F	C	A	A	F	A	F	A
Acrylamide (<50%)	F	C	C	B	F	B	•	•	Benzyl Alcohol	A	A	A	A	A	A	F	A
Acrylic Acid	F	B	B	B	F	B	B	A	Bleach ( 12.5% CL)	F	B	C	B	F	B	F	B
Acrylonitrile	F	A	A	A	F	A	F	F	Borax (Aqueous)	A	A	A	A	A	A	A	A
Adipic Acid (Aqueous)	A	A	A	A	A	A	A	A	Boric Acid	F	A	A	A	F	A	A	A
Adiponitrile	B	B	B	A	B	A	•	•	Brine	F	A	C	F	F	F	A	A
Allyl Alcohol	A	A	A	A	A	A	A	B	Butadiene	B	B	B	B	B	B	F	B
Allyl Bromide	C	C	C	A	C	A	F	B	Butanol	B	B	B	A	B	A	A	A
Allyl Chloride	C	C	C	B	C	B	F	A	Butyl Acetate	C	C	C	B	C	B	F	F
Aluminum Salt Solutions	F	A	B	A	F	A	A	A	Butyl Alcohol	A	A	A	A	A	A	A	A
Alums	F	A	A	A	F	A	A	A	Butyl Benzene	B	B	B	B	B	B	F	A
Aminoethyl Ethanolamine	F	B	B	A	F	A	•	•	Butyl Carbitol Acetate	C	C	C	B	C	B	B	A
Ammonia Solution	F	A	A	A	F	A	C	B	Butylamine	F	B	B	B	F	B	C	F
Ammonium Chloride Solution	F	A	C	C	F	C	C	A	Butyric Acid	B	B	B	A	B	A	C	C
Ammonium Hydroxide	B	A	B	A	B	A	B	B	Calcium Acetate	B	B	B	B	B	B	F	F
Ammonium Nitrate Solution	F	A	B	B	F	B	A	A	Calcium Alkyl Salicylate	F	A	A	A	F	A	•	•
Ammonium Sulfate Solution	F	A	A	A	F	A	A	A	Calcium Carbonate	F	A	A	A	F	A	A	A
Amyl Acetate	C	C	C	A	C	A	F	A	Calcium Chloride	F	A	C	C	F	C	A	A
									Calcium Hydroxide	F	A	A	A	F	A	A	A
									Calcium Hypochlorite	F	B	C	B	F	B	F	A
									Calcium Nitrate	F	A	A	A	F	A	A	A
									Camphor Oil	C	C	C	B	C	B	B	A

(Continued on the following page)



# Composite Hose and Chemical Table (Continued)

**Key:** A = Suitable for use @ 140°F  
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 F = Unsuitable – NOT RECOMMENDED  
 • = No data (contact Parker)

Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material	
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems			
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)	Nitrile (Petroleum Applications)	FKM (Chemical Applications)
Caprylic Acid	A	A	A	A	A	A	C	B
Carbinols	B	B	B	A	B	A	A	F
Carbinol Acetate	C	C	C	B	C	B	B	B
Carbolic Acid	F	A	A	A	F	A	C	A
Carbolic Oils	C	C	C	B	C	B	•	•
Carbon Bisulfide	F	B	B	B	F	B	F	A
Carbon Disulfide	C	C	C	A	C	A	F	A
Carbon Monoxide	F	A	A	A	F	A	C	A
Carbon Tetrachloride	C	C	C	B	C	B	C	A
Carbonic Acid	F	A	A	A	F	A	A	A
Cashew Nutshell Oil	B	B	B	B	B	B	•	•
Castor Oil	F	B	B	B	F	B	A	A
Caustic Potash (<50%)	F	A	B	A	F	A	A	C
Caustic Soda (<50%)	F	A	B	A	F	A	B	C
Cellosolve	B	B	B	B	B	B	F	C
Cetyl Acid	F	B	B	B	F	B	•	•
Chlorinated Solvents	F	B	B	B	F	B	F	A
Chlorine (Dry)	F	F	F	A	F	A	B	A
Chlorobenzene	C	C	C	A	C	A	F	A
Chloroform	C	C	C	A	C	A	F	A
Chrome Alum	F	A	A	A	F	A	A	A
Chromic Acid Aqueous	F	C	C	A	F	A	F	C
Citric Acid	F	A	A	A	F	A	B	A
Coal Tar Naptha	F	B	B	A	F	A	A	A
Copper Chloride	F	A	F	F	F	F	A	A
Copper Nitrate	F	A	A	A	F	A	A	A
Creosote	B	B	B	A	B	A	A	A
Crotonaldehyde	C	C	C	B	C	B	F	F
Crude Oil	A	A	A	A	A	A	A	A
Cumene	B	B	B	A	B	A	C	A
Cyclohexane	B	B	B	B	B	B	B	A
Cyclohexylamine	F	B	B	A	F	A	C	F
Cyclotane	B	B	B	A	B	A	•	•
Decanol	B	B	B	B	B	B	B	A
Decyl Alcohol	B	B	B	B	B	B	A	B
Decylbutyl Phthalate	B	B	B	B	B	B	F	C
Detergents (2%)	A	A	A	A	A	A	A	A
Dextrin	A	A	A	A	A	A	A	A
Diacetone Alcohol	B	B	B	A	B	A	F	F
Diaminoethylamine	C	B	B	A	C	A	•	•
Diamylamine	C	B	B	A	C	A	B	F
Dibromoethane	F	B	B	A	F	A	F	A
Dibutyl Ether	C	C	C	B	C	B	F	C
Dibutyl Phthalate	B	B	B	A	B	A	F	F
Dibutylamine	C	B	B	A	C	A	F	C
Dichloroacetic Acid	F	C	F	F	F	F	F	C
Dichlorobenzene	C	C	C	B	C	B	F	B
Dichlorobutane	C	C	C	A	C	A	F	A
Dichloroethane	C	C	C	B	C	B	F	A
Dichloroethyl Ether	C	C	C	A	C	A	F	C
Dichloroethylene	C	C	C	B	C	B	F	A
Dichloropropane	C	C	C	B	C	B	F	A
Dichloropropylene	C	C	C	B	C	B	•	•
Diethylbenzene	B	B	B	A	B	A	•	•
Diesel Oil	B	B	B	B	B	B	A	A
Diethanolamine	F	A	A	A	F	A	B	F
Diethyl Sulphate	F	B	B	A	F	A	F	A
Diethylamine	F	B	B	A	F	A	C	F
Diethylaminoethanol	C	B	B	A	C	A	•	•
Diethylene Dioxide	C	B	B	A	C	A	F	F
Diethylene Glycol Diethyl Ether	B	B	B	A	B	A	•	•
Diethylene Glycol	A	A	A	A	A	A	A	A
Diisobutyl Ketone	B	B	B	A	B	A	F	F
Diisobutylamine	B	B	B	B	B	B	B	A
Diisobutylene	C	C	C	B	C	B	A	A
Diisooctyl Adipate	B	B	B	A	B	A	F	C
Diisooctyl Phthalate	A	A	A	A	A	A	F	B
Diisopropanolamine	F	B	B	A	F	A	B	C
Diisopropylether	B	B	B	A	B	A	B	B
Dimethyl Ethanolamine	F	B	B	A	F	A	•	•
Dimethyl Formamide	A	A	A	A	A	A	C	F
Dimethyl Hydrogen Phosphite	F	C	C	B	F	B	•	•
Dimethyl Ketone	A	A	A	A	A	A	F	F
Dimethyl Phthalate	B	B	B	A	B	A	F	C
Dimethyl Sulphate	F	B	B	A	F	A	F	F
Dimethyl Sulphide	B	B	B	A	B	A	F	C
Dimethylamine	F	B	B	A	F	A	C	F
Dimethylcyclohexylamine	F	B	B	B	F	B	•	•
Dinitrobenzene	C	C	C	A	C	A	F	A
Diocetyl Phthalate	B	B	B	A	B	A	F	B
Diocetyl Sebacate	B	B	B	A	B	A	F	B
Diocetylamine	B	B	B	A	B	A	B	F
Dioxane	C	B	B	A	C	A	F	F
Dipentene	B	B	B	A	B	A	C	A

(Continued on the following page)



## Composite Hose and Chemical Table (Continued)

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Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material	
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems		Nitrile (Petroleum Applications) FKM (Chemical Applications)	
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)		
Diphenyl Ether	B	B	B	A	B	A	F	A
Diphenyl Phthalate	B	B	B	A	B	A	F	C
Dipropylamine	B	B	B	A	B	A	•	•
Dipropylene Glycol	A	A	A	A	A	A	A	A
Disulphuric Acid	F	F	F	C	F	C	•	•
Dodecyl Alcohol	B	B	B	A	B	A	A	B
Dodecyl Benzene	B	B	B	B	B	B	F	A
Dodecyl Phenol	B	B	B	B	B	B	•	•
Dodecyltoluene	B	B	B	B	B	B	F	A
Emulsifiers	F	A	A	A	F	A	•	•
Epichlorohydrin	B	B	B	A	B	A	F	F
Ethanoic Acid	F	B	B	A	F	A	C	F
Ethanolamine	B	A	A	A	B	A	B	F
Ethoxy Ethanol	C	C	C	B	C	B	A	C
Ethoxy Ethyl Acetate	C	C	C	A	C	A	F	F
Ethoxy Propanol	C	C	C	B	C	B	•	•
Ethyl Acetate	C	C	C	A	C	A	F	F
Ethyl Acrylate	B	B	B	A	B	A	F	F
Ethyl Alcohol	A	A	A	A	A	A	A	B
Ethyl Aluminum Dichloride	F	F	F	C	F	C	F	B
Ethyl Butanol	B	B	B	A	B	A	A	B
Ethyl Butylamine	C	B	B	B	C	B	•	•
Ethyl Chloride	C	C	C	A	C	A	F	B
Ethyl Cyclohexane	C	C	C	A	C	A	•	•
Ethyl Cyclohexylamine	C	C	C	B	C	B	•	•
Ethyl Ether	F	C	C	A	F	A	C	F
Ethyl Formate	F	B	B	A	F	A	F	F
Ethyl Iodide	C	C	C	B	C	B	F	B
Ethyl Isobutyl Ether	F	B	B	A	F	A	F	•
Ethyl Methacrylate	C	C	C	A	C	A	•	•
Ethyl Methyl Ketone	B	B	B	B	B	B	F	F
Ethyl Phthalate	A	A	A	A	A	A	F	•
Ethyl Silicate	A	A	A	A	A	A	A	A
Ethyl Sulphate	B	B	B	A	B	A	F	F
Ethyl Vinyl Ether	B	B	B	A	B	A	•	•
Ethylamine	C	B	B	A	C	A	C	F
Ethylbenzene	B	B	B	A	B	A	F	A
Ethylene Carbonate	C	B	B	A	C	A	•	•
Ethylene Chloride	C	C	C	A	C	A	F	A
Ethylene Chlorohydrin	B	B	B	A	B	A	F	A
Ethylene Cyanhydrin	F	C	C	A	F	A	B	A
Ethylene Diamine	B	B	B	A	B	A	A	F
Ethylene Dibromide	C	B	B	A	C	A	F	B
Ethylene Dichloride	C	C	C	A	C	A	F	B
Ethylene Glycol	A	A	A	A	A	A	A	A
Ethylene Oxide	F	B	B	A	F	A	F	F
Ethylhexanoic Acid	F	B	B	B	F	B	•	•
Ethylhexyl Acrylate	F	B	B	A	F	A	•	F
Ethylhexyl Alcohol	A	A	A	A	A	A	•	•
Ethylpropyl Ether	B	B	B	A	B	A	F	C
Ethylpropyl Ketone	C	C	C	A	C	A	F	F
Fatty Acids	F	A	A	A	F	A	B	A
Fatty Alcohols	A	A	A	A	A	A	•	•
Ferric Salts	F	A	B	B	F	B	A	A
Fluosilicic Acid	F	A	A	A	F	A	B	A
Formaldehyde Solutions	A	A	A	A	A	A	A	A
Formamide	F	A	B	A	F	A	A	F
Formic Acid	F	A	B	A	F	A	B	F
Fruit Juices	F	A	A	F	F	F	A	A
Fuel Oils	B	B	B	A	B	A	A	A
Furfural	C	C	C	A	C	A	F	F
Furfuryl Alcohol	C	C	C	A	C	A	F	F
Gallic Acid Solution	C	A	A	A	C	A	B	B
Gasoline	B	B	B	A	B	A	A	A
Gelatine (aqueous)	A	A	A	A	A	A	A	A
Gluconic Acid	C	A	A	A	C	A	C	A
Glucose (aqueous)	A	A	A	A	A	A	A	A
Glycerine	A	A	A	A	A	A	A	A
Glycolic acid (aqueous)	F	A	A	A	F	A	A	A
Glycols (aqueous)	A	A	A	A	A	A	A	A
Grease	B	B	B	A	B	A	A	A
Green Sulphate Liquor	F	B	B	B	F	B	•	•
Heptane	B	B	B	A	B	A	A	A
Heptanol	A	A	A	A	A	A	A	B
Heptanone	B	B	B	A	B	A	•	•
Heptene	B	B	B	A	B	A	•	•
Heptonic Acid	F	B	B	A	F	A	A	A
Hexamethylene Diamine	F	B	B	A	F	A	•	•
Hexamethylene Tetramine	F	B	B	A	F	A	•	•
Hexamethyleneimine	F	C	C	B	F	B	•	•
Hexane	B	B	B	A	B	A	A	A
Hexanol	A	A	A	A	A	A	A	A
Hexene	B	B	B	B	B	B	B	A
Hexylamine	F	B	B	A	F	A	C	F
Hexylene Glycol	A	A	A	A	A	A	A	A
Hydrazine Hydrate	F	B	B	A	F	A	B	F
Hydrobromic Acid	F	A	F	F	F	F	C	A
Hydrochloric Acid	F	C	F	F	F	F	F	A

(Continued on the following page)



# Composite Hose and Chemical Table (Continued)

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Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material	
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems		Nitrile (Petroleum Applications) FKM (Chemical Applications)	
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)		
Hydrofluoric Acid	F	B	F	F	F	F	F	A
Hydrofluosilicic Acid	F	A	A	A	F	A	B	A
Hydrogen Peroxide Solution	F	B	B	B	F	B	F	B
Hydrogen Sulfide (aqueous)	F	A	F	F	F	F	F	F
Hydroquinone	A	A	A	A	A	A	F	F
Iodine Solution	F	B	F	F	F	F	F	C
Iron Salts	F	A	F	A	F	A	A	A
Isoamyl Acetate	C	C	C	A	C	A	F	F
Isoamyl Alcohol	B	B	B	A	B	A	A	A
Isoamyl Bromide	F	B	F	F	F	F	F	B
Isoamyl Butyrate	B	B	B	A	B	A	F	F
Isoamyl Chloride	F	C	C	B	F	B	F	B
Isoamyl Ether	B	B	B	A	B	A	F	F
Isobutraldehyde	F	F	C	B	F	B	C	F
Isobutyl Acetate	C	C	C	B	C	B	F	F
Isobutyl Acrylate	B	B	B	A	B	A	•	•
Isobutyl Alcohol	A	A	A	A	A	A	B	B
Isobutyl Bromide	F	B	F	F	F	F	F	B
Isobutyl Chloride	F	B	F	F	F	F	F	B
Isobutyl Ether	C	C	C	A	C	A	F	F
Isobutyl Formate	C	C	C	C	C	C	•	•
Isobutylamine	F	B	B	A	F	A	F	F
Isobutylmethyl Ketone	B	B	B	A	B	A	F	F
Isodecyl Alcohol	A	A	A	A	A	A	A	B
Isooctane	C	C	C	A	C	A	A	A
Isopentane	C	C	C	A	C	A	A	A
Isophorone	B	B	B	B	B	B	F	F
Isophorone Diamine	F	C	C	B	F	B	•	•
Isophorone Diisocyanate	C	C	C	B	C	B	•	•
Isoprene	B	B	B	A	B	A	•	•
Isopropanolamine	F	B	B	A	F	A	F	F
Isopropyl Acetate	C	C	C	B	C	B	F	F
Isopropyl Alcohol	A	A	A	A	A	A	B	B
Isopropyl Benzene	B	B	B	B	B	B	F	A
Isopropyl Chloride	F	B	F	B	F	B	F	B
Isopropyl Ether	F	B	F	A	F	A	C	F
Isopropyl Toluene	B	B	B	B	B	B	F	A
Isopropylamine	F	B	B	A	F	A	B	F
Isovaleraldehyde	F	C	C	B	F	B	•	•
Jams	B	A	A	A	B	A	A	A
Jet Fuel	C	C	C	A	C	A	A	A
Kerosene	B	B	B	A	B	A	A	A
Ketones	B	B	B	A	B	A	F	F
Lactic Acid	F	A	B	A	F	A	C	A

Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material	
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems		Nitrile (Petroleum Applications) FKM (Chemical Applications)	
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)		
Lanolin	A	A	A	A	A	A	A	A
Lard	A	A	A	A	A	A	A	A
Latex	A	A	A	A	A	A	A	A
Lauryl Alcohol	B	B	B	A	B	A	A	B
Lead Acetate	F	A	A	A	F	A	C	C
Lead Salts	F	A	B	B	F	B	A	A
Ligroin	C	C	C	B	C	B	A	A
Limonene	B	B	B	A	B	A	•	•
Linseed Oil	A	A	A	A	A	A	A	A
Lubricating Oil	B	B	B	A	B	A	A	A
Magnesium Salts	F	A	B	B	F	B	A	A
Maleic Acid Solution	F	A	B	B	F	B	F	A
Maleic Anhydride Solution	F	B	B	B	F	B	F	A
Malic Acid Solution	F	B	B	B	F	B	B	A
Manganese Salts	F	A	B	B	F	B	A	A
Meat Juices	F	A	A	A	F	A	•	•
Mercuric Chloride	F	A	F	F	F	F	B	A
Mesityl Oxide	B	B	B	A	B	A	F	F
Methacrylic Acid	F	B	B	A	F	A	•	•
Methaxylene	F	B	B	B	F	B	•	•
Methyl Acetate	C	C	C	A	C	A	F	F
Methyl Acetone	B	B	B	A	B	A	F	F
Methyl Acrylate	B	B	B	A	B	A	F	F
Methyl Alcohol	A	A	A	A	A	A	A	C
Methyl Butylaldehyde	F	F	F	B	F	B	•	•
Methyl Carbitol	A	A	A	A	A	A	C	•
Methyl Cellosolve	B	B	B	B	B	B	C	F
Methyl Cellosolve Acetate	C	C	C	B	C	B	•	•
Methyl Chloride	C	C	C	A	C	A	C	A
Methyl Cyanide	B	B	B	A	B	A	C	F
Methyl Cyclohexane	B	B	B	A	B	A	F	B
Methyl Formate	C	C	C	A	C	A	F	C
Methyl Isobutyl Ketone	C	C	C	A	C	A	F	F
Methyl Methacrylate	C	C	C	A	C	A	F	F
Methyl Nitrobenzene	B	B	B	B	B	B	•	•
Methyl Pentene	B	B	B	A	B	A	•	•
Methylacetate Acetate	F	C	C	B	F	B	F	F
Methylamine	C	B	B	B	C	B	B	F
Methylamly Ketone	B	B	B	A	B	A	•	•
Methylamyl Acetate	C	C	C	A	C	A	C	C

(Continued on the following page)



# Composite Hose and Chemical Table (Continued)

**Key:** **A** = Suitable for use @ 140°F  
**B** = Suitable for use @ AMBIENT temperatures  
**C** = Suitable for INTERMITTENT service only  
**F** = Unsuitable – NOT RECOMMENDED  
**•** = No data (contact Parker)

Chemical or Material Conveyed	Hose Inner Wire				Coupling Material	Seal Material		
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems			
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)	Nitrile (Petroleum Applications)	FKM (Chemical Applications)
Methylamyl Alcohol	B	B	B	A	B	A	•	•
Methylbutyl Alcohol	A	A	A	A	A	A	•	•
Methylbutyl Ketone (MBK)	B	B	B	A	B	A	•	•
Methylene Bromide	C	C	C	A	C	A	B	C
Methylene Chloride	C	C	C	B	C	B	F	C
Methylethyl Ketone	C	C	C	A	C	A	F	F
Methylethyl Pyridine	C	C	C	B	C	B	•	•
Methylheptyl Ketone	F	B	B	B	F	B	•	•
Methylstyrene	B	B	B	A	B	A	•	•
Methylter-Butyl Ether (MTBE)	C	C	C	A	C	A	F	F
Mineral Oil	B	B	B	A	B	A	A	A
Mineral Spirits	B	B	B	A	B	A	A	A
Molasses	A	A	A	A	A	A	F	A
Monochlorobenzene	C	B	B	B	C	B	F	B
Monoethanolamine	B	A	A	A	B	A	B	C
Monoethylamine	C	B	B	A	C	A	F	•
Monoisopropanolamine	F	B	B	B	F	B	B	F
Monotrobenzene	B	B	B	A	B	A	•	•
Morpholine	C	B	B	A	C	A	F	A
Naptha	B	B	B	A	B	A	A	A
Naptha Solvent	C	C	C	A	C	A	A	A
Napthalene Solution	A	A	A	A	A	A	F	A
Neohexane	B	B	B	B	B	B	A	A
Nickel Chloride	F	A	C	B	F	B	A	A
Nickel Salts	F	A	B	B	F	B	A	A
Nitric Acid (>60%)	F	F	F	C	F	C	F	C
Nitric Acid (10%)	F	A	A	A	F	A	F	C
Nitric Acid (60%)	F	C	C	C	F	C	F	C
Nitrobenzene	B	B	B	A	B	A	F	B
Nitropropane	C	C	C	A	C	A	F	F
Nitrotoluene	B	B	B	A	B	A	C	C
Nonane	B	B	B	A	B	A	A	A
Nonyl Alcohol	B	B	B	A	B	A	A	B
Nonyl Phenol	C	B	B	A	C	A	•	•
Octane	B	B	B	A	B	A	A	A
Octanol	B	B	B	A	B	A	B	A
Octyl Acetate	C	C	C	A	C	A	F	F
Octyl Acrylate	B	B	B	A	B	A	•	•
Octyl Carbinol	B	B	B	A	B	A	A	B
Oils	B	B	B	A	B	A	A	A
Oleic Acid	F	B	B	A	F	A	B	C
Oleum	F	F	F	B	F	B	F	F
O-Nitrophenol Solution	F	A	A	A	F	A	C	F
Oxalic Acid	F	B	B	A	F	A	B	A

Chemical or Material Conveyed	Hose Inner Wire				Coupling Material	Seal Material		
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems			
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)	Nitrile (Petroleum Applications)	FKM (Chemical Applications)
Palm Oil	B	B	B	A	B	A	A	A
Parrafin Wax	A	A	A	A	A	A	A	A
Pentane	B	B	B	A	B	A	A	A
Pentanol	A	A	A	A	A	A	A	B
Pentanone	B	B	B	A	B	A	F	F
Pentene	B	B	B	A	B	A	B	A
Perchloroethylene	C	C	C	A	C	A	C	A
Perchloric Acid	F	B	F	F	F	F	F	A
Petrolatum	A	A	A	A	A	A	A	A
Petroleum	A	A	A	A	A	A	A	A
Petroleum Ether	C	C	C	A	C	A	A	A
Petroleum Naptha	C	C	C	A	C	A	A	A
Phenol	B	A	A	A	B	A	F	A
Phenoxyethanol	C	C	C	B	C	B	•	•
Phenylhydrazine	F	C	C	B	F	B	•	•
Phosphoric Acid	F	A	A	A	F	A	C	A
Phosphorus	F	F	F	F	F	F	•	•
Phosphorus Oxychloride	F	C	F	F	F	F	F	A
Phosphorus Pentoxide	F	A	B	B	F	B	•	•
Phosphorus Trichloride	F	B	A	A	F	A	F	A
Phthalic Acid	F	B	B	B	F	B	•	•
Phthalic Anyhydride	F	F	F	F	F	F	•	•
Picric Acid	F	B	B	B	F	B	C	C
Pine Oil	B	B	B	A	B	A	C	B
Pinene	B	B	B	A	B	A	A	A
Plasticisers	B	B	B	A	B	A	•	•
Polyethylene Glycol	B	B	B	A	B	A	A	A
Polyethylene Polyamines	F	C	C	A	F	A	A	A
Polypropylene Glycol	B	B	B	A	B	A	A	A
Potassium Salts	F	A	B	A	F	A	A	A
Propionaldehyde	F	C	C	A	F	A	C	F
Propionic Acid	F	B	B	A	F	A	C	F
Propionic Anhydride	F	C	C	B	F	B	•	•
Propionitrile	C	C	C	C	C	C	F	F
Propyl Acetate	C	C	C	A	C	A	F	F
Propyl Alcohol	A	A	A	A	A	A	A	A
Propylamine	F	B	B	A	F	A	C	F
Propylene Glycol	A	A	A	A	A	A	A	A
Propylene Oxide	F	B	B	B	F	B	F	F
Prussic Acid	F	A	A	A	F	A	•	•
Pyridine	F	B	B	A	F	A	F	F
Pyrosulphuric Acid	F	F	F	B	F	B	C	C
Salt Solution	F	A	B	A	F	A	A	A
Sea Water	F	A	B	B	F	B	A	A

(Continued on the following page)



# Composite Hose and Chemical Table (Continued)

**Key:** A = Suitable for use @ 140°F      F = Unsuitable – NOT RECOMMENDED  
 B = Suitable for use @ AMBIENT temperatures      • = No data (contact Parker)  
 C = Suitable for INTERMITTENT service only

Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material	
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems			
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)	Nitrile (Petroleum Applications)	FKM (Chemical Applications)
Sewage	F	B	B	B	F	B	A	A
Silicon Oil	A	A	A	A	A	A	A	A
Silver Halides	F	A	F	F	F	F	C	C
Silver Salts	F	A	B	B	F	B	A	A
Soap Solution	B	A	A	A	B	A	A	A
Sodium Chloride	F	A	F	F	F	F	A	A
Sodium Dichromate	F	B	F	F	F	F	C	C
Sodium Hydrosulfide	F	A	B	B	F	B	C	B
Sodium Hydroxide	F	A	B	B	F	B	C	C
Sodium Hypochlorite	F	C	F	F	F	F	F	A
Sodium Salts	F	A	B	B	F	B	B	A
Sodium Thiosulfate	F	A	B	B	F	B	A	A
Starch(aqueous)	B	A	A	A	B	A	A	A
Styrene Monomer	B	B	B	A	B	A	F	A
Sugar Syrup	A	A	A	A	A	A	A	A
Sulphamic Acid	F	A	A	A	F	A	B	C
Sulpher Dioxide	F	C	C	C	F	C	C	A
Sulpher Liquid	F	F	F	F	F	F	B	A
Sulphuric Acid (<20%)	F	B	C	B	F	B	B	A
Sulphuric Acid (>85%)	F	C	C	B	F	B	F	A
Sulphuric Acid (20%-80%)	F	B	F	C	F	C	F	A
Sulphurous Acid	F	B	B	B	F	B	C	A
Sulphuryl Chloride	F	F	F	F	F	F	C	A
Tall Oil	A	A	A	A	A	A	A	A
Tallow	A	A	A	A	A	A	A	A
Tannic Acid	F	A	A	A	F	A	C	A
Tartaric Acid	F	A	B	A	F	A	C	A
Tetrachloroethane	C	C	C	A	C	A	F	A
Tetrachloroethylene	C	C	C	A	C	A	F	A
Tetraethylene Glycol	B	B	B	A	B	A	A	A
Tetrahydrofuran	F	C	B	A	F	A	F	F
Tetrahydronaphthalene	C	C	C	A	C	A	•	•
Tetrathylene Pentamine	F	B	B	B	F	B	•	•
Thionyl Chloride	F	F	F	C	F	C	•	•
Tin Halides	F	A	F	F	F	F	A	A
Tin Salts	F	A	B	F	F	F	A	A
Titanium Tetrachloride	F	C	F	F	F	F	B	A
Toluene	C	C	C	A	C	A	C	A
Toluene Diisocyanate	B	B	B	A	B	A	C	B
Transmission Oil	B	B	B	A	B	A	B	A
Tributyl Phosphate	B	B	B	A	B	A	F	F
Tributylamine	B	B	B	A	B	A	B	F
Trichloroacetic Acid	F	A	B	B	F	B	C	F

Chemical or Material Conveyed	Hose Inner Wire				Coupling Material		Seal Material	
	w/Polypropylene Hose Liner		w/PTFE Hose Liner		Inserts/Stems			
	G Galvanized	P Polypropylene	S Stainless Steel	S Stainless Steel	Carbon Steel	Stainless Steel (316)	Nitrile (Petroleum Applications)	FKM (Chemical Applications)
Trichlorobenzene	F	C	C	A	F	A	F	B
Trichloroethane	C	C	C	A	C	A	F	A
Trichloropropane	C	C	C	A	C	A	F	A
Tricresyl Phosphate	B	B	B	A	B	A	F	A
Tridecanol	B	B	B	A	B	A	A	B
Triethylamine	F	B	B	B	F	B	A	F
Triethylbenzene	B	B	B	A	B	A	•	•
Triethylene Glycol	A	A	A	A	A	A	A	A
Triethylene Tetramine	F	B	B	A	F	A	•	•
Trimethyl Acetic Acid	F	A	A	A	F	A	•	•
Trimethyl Benzene	B	B	B	A	B	A	B	A
Trioctyl Phosphate	B	B	B	A	B	A	F	B
Trithanolamine	F	B	B	A	F	A	•	•
Tritolyl Phosphate	B	B	B	A	B	A	F	A
Turpentine	C	C	C	A	C	A	B	A
Urea/Ammonium Salt Solution	B	A	B	A	B	A	A	A
Valeraldehyde	C	C	C	A	C	A	C	F
Vaseline	A	A	A	A	A	A	A	A
Vinegar	F	A	A	A	F	A	C	A
Vinyl Acetate	F	B	B	A	F	A	F	A
Vinyl Ethyl Ether	C	C	C	A	C	A	•	•
Vinyl Toluene	B	B	B	A	B	A	F	A
Vinylidene Chloride	C	C	C	A	C	A	F	A
White Spirits	B	B	B	B	B	B	A	A
Wine	F	B	B	A	F	A	A	A
Xylene/Xylenol	B	B	B	A	B	A	C	A
Yeast(aqueous)	F	A	A	A	F	A	A	A
Zinc Halides	F	A	F	F	F	F	A	A
Zinc Salts	F	A	B	B	F	B	A	A

